DNR Drought Assessment Committee Meeting May Presentation May 20, 2003



Statewide Precipitation Rankings (Records:109-Year Long)

• April 2003: 39th Wettest

• Feb-Apr (Last 3-months): 42nd Wettest

• Nov-Apr (Last 6-months): 18th Driest

• Jun-Apr (Last 11-months): 11th Driest

Precipitation by Climate Division Last 30 Days

| CD | % OF NORMAL |
|----------|-------------|
| 1 | 138 |
| 2 | 148 |
| 3 | 150 |
| 4 | 149 |
| 5 | 130 |
| 6 | 172 |
| MISSOURI | 144 |

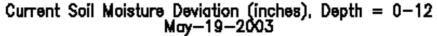
Precipitation by Climate Division Last 90 Days

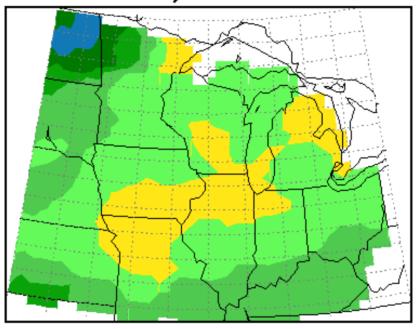
| CD | % OF NORMAL |
|----------|-------------|
| 1 | 94 |
| 2 | 112 |
| 3 | 110 |
| 4 | 112 |
| 5 | 95 |
| 6 | 110 |
| MISSOURI | 104 |

Precipitation by Climate Division Last 12 Months

| CD | % OF NORMAL |
|----------|-------------|
| 1 | 66 |
| 2 | 87 |
| 3 | 77 |
| 4 | 79 |
| 5 | 80 |
| 6 | 99 |
| MISSOURI | 79 |

Soil Moisture Deviation (Surface to 12")

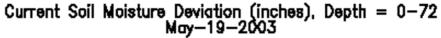


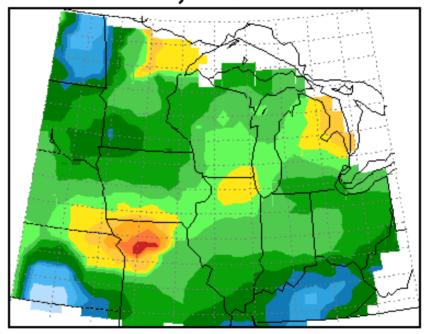


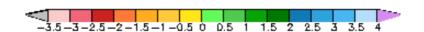


Midwestern Regional Climate Center Illinois State Water Survey Champaign, Illinois

Soil Moisture Deviation (Surface to 72")



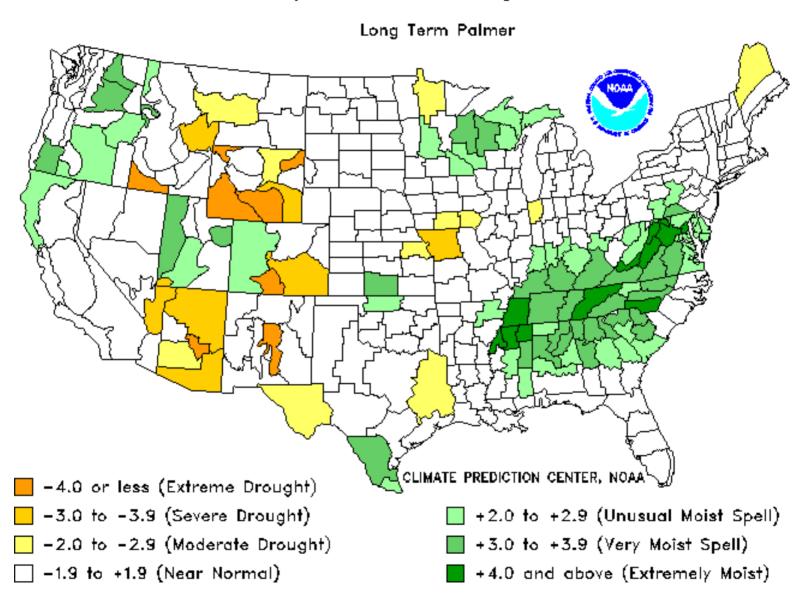


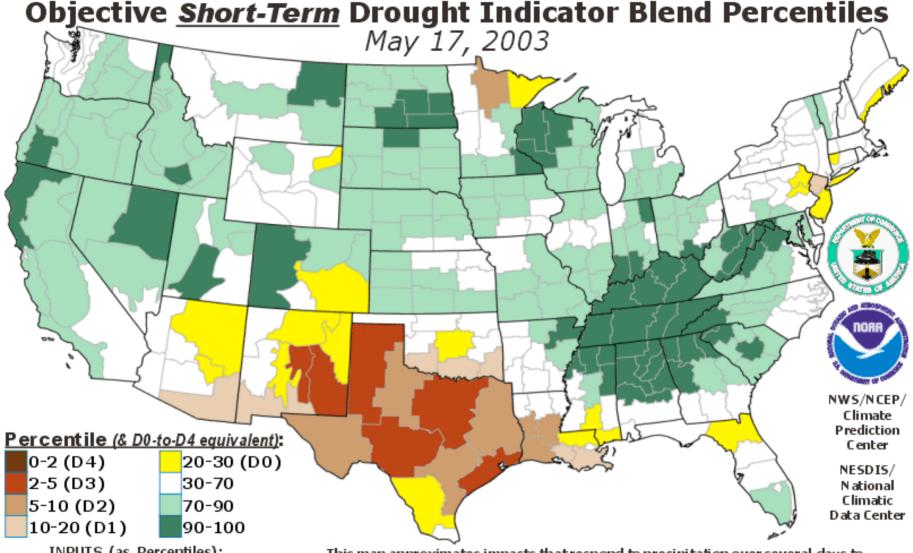


Midwestern Regional Climate Center Illinois State Water Survey Champaign, Illinois

Drought Severity Index by Division

Weekly Value for Period Ending 17 MAY 2003





INPUTS (as Percentiles):

35% Palmer Z-Index

25% 3-Month Precipitation

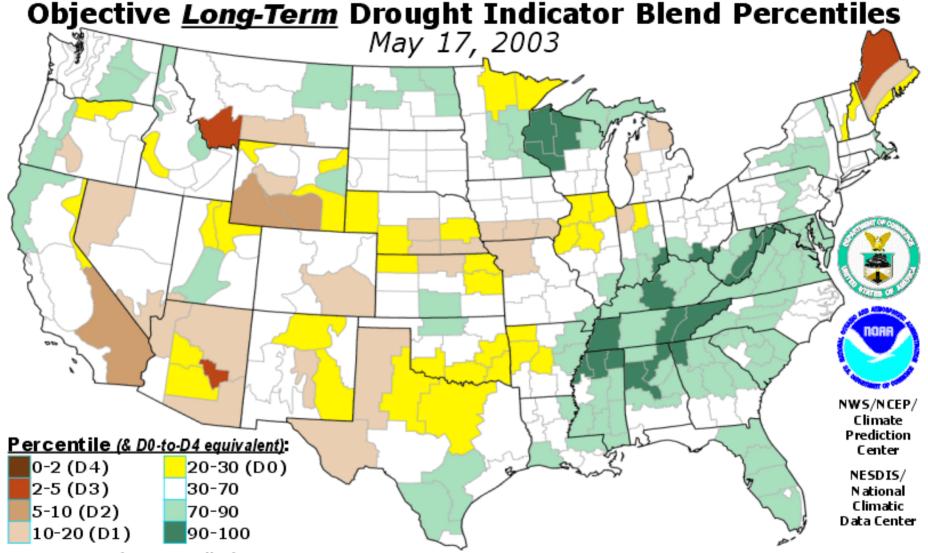
20% 1-Month Precipitation

13% CPC Soil Model

7% Palmer Drought Index

This map approximates impacts that respond to precipitation over several days to a few months, such as agriculture, topsoil moisture, unregulated streamflows, and most aspects of wildfire danger.

This map is based on preliminary climate division data. Local conditions and/or final data may differ. The relationship between indicators and impacts varies with location and season. Do not interpret this map too literally. See full product description for more details.

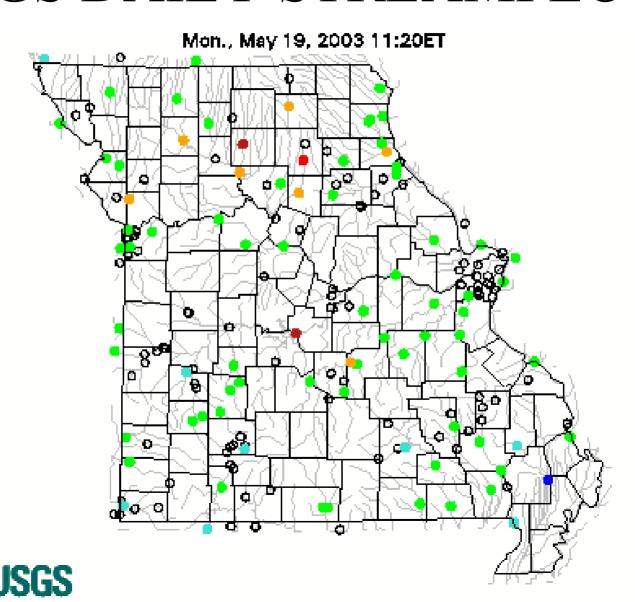


INPUTS (as Percentiles):

25% Palmer Hydrologic Index 20% 24-Month Precipitation 20% 12-Month Precipitation 15% 6-Month Precipitation 10% 60-Month Precipitation 10% CPC Soil Model This map approximates impacts that respond to precipitation over several months to a few years, such as reservoir content, groundwater depth, and lake levels.

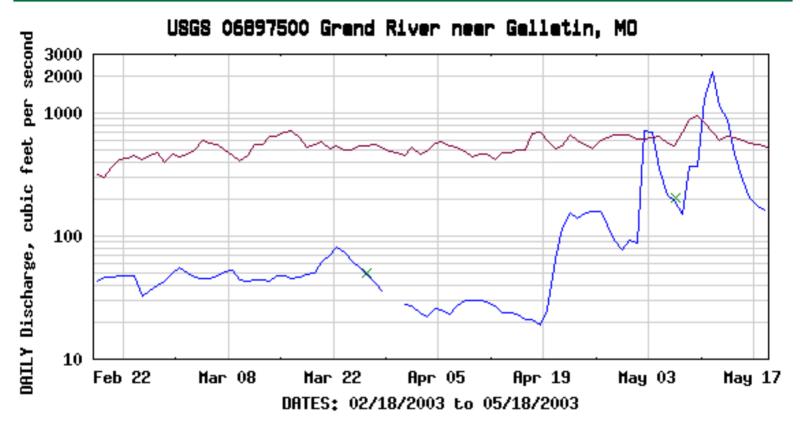
This map is based on preliminary dimate division data. Local conditions and/or final data may differ. The relationship between indicators and water supplies can vary markedly with location, season, source, and management practices. Do not interpret this map too literally. See full product description for more details.

USGS DAILY STREAMFLOW





90 DAY STREAM FLOW

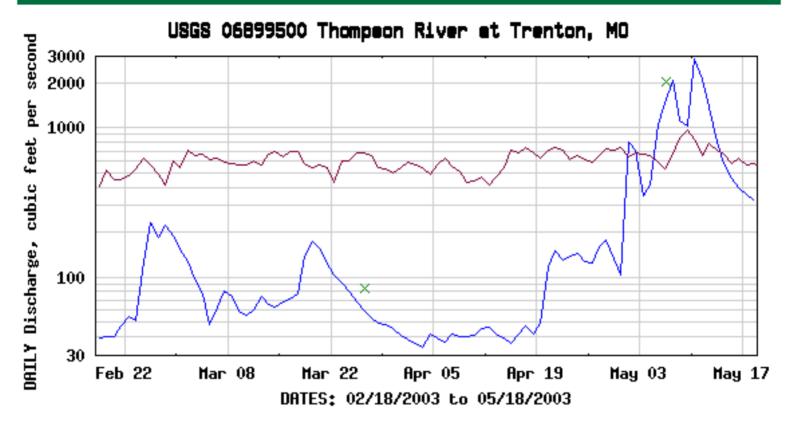


EXPLANATION

- DAILY MEAN DISCHARGE
- MEDIAN DAILY STREAMFLOW BASED ON 81 YEARS OF RECORD
- × MEASURED Discharge



90 DAY STREAMFLOW



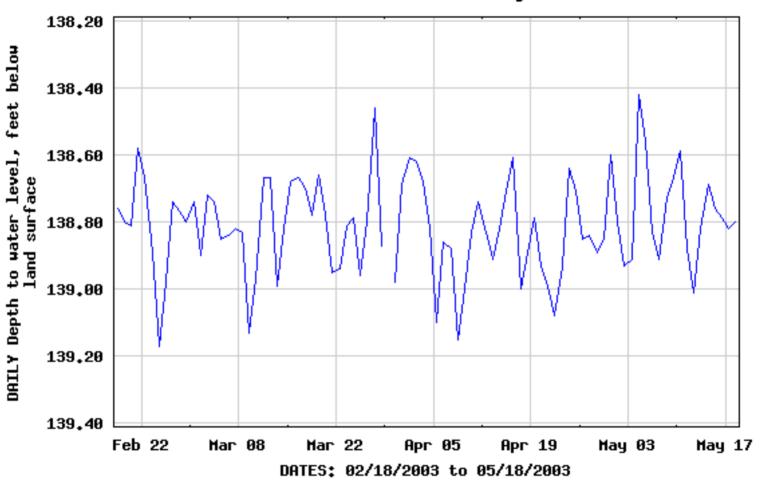
EXPLANATION

- DAILY MEAN DISCHARGE
- MEDIAN DAILY STREAMFLOW BASED ON 73 YEARS OF RECORD
- × MEASURED Discharge



DEPTH TO WATER 90 DAY PERIOD

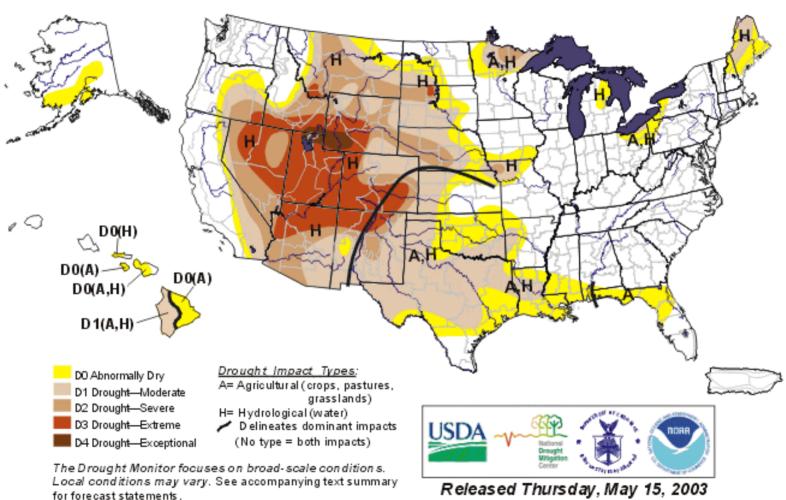
USGS 400458093582001 Coffey



Provisional Data Subject to Revision

U.S. Drought Monitor

May 13, 2003 Valid 8 a.m. EDT



http://drought.unl.edu/dm

Released Thursday, May 15, 2003

Author: Rich Tinker, NOAA's Climate Prediction Center

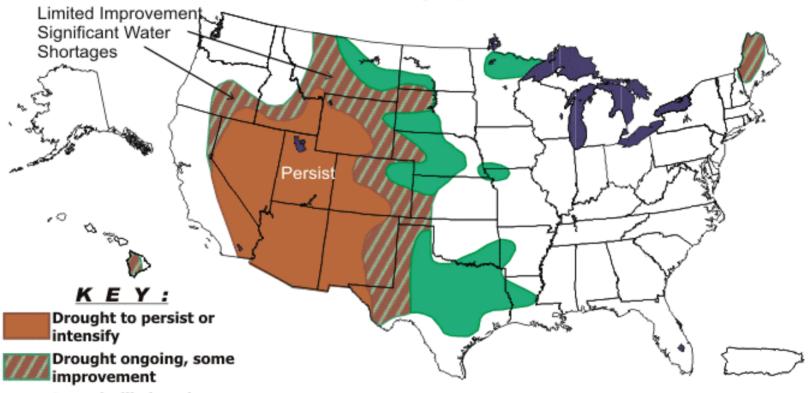


U. S. Seasonal Drought Outlook

Through August 2003







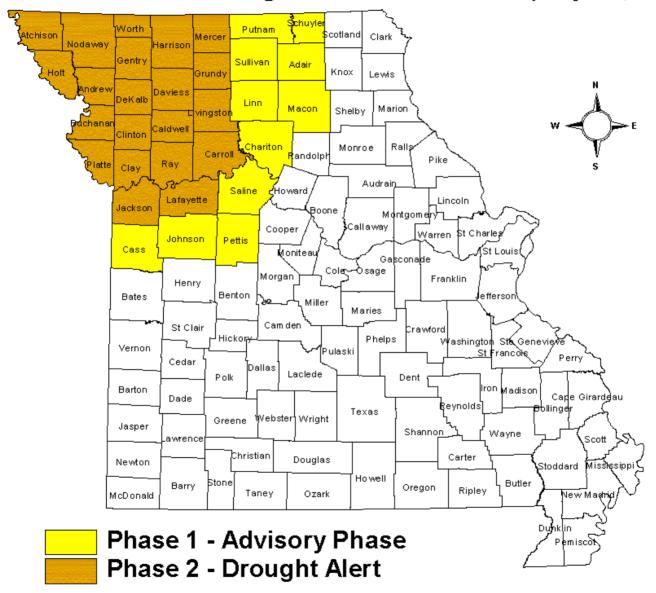
Drought likely to improve, impacts ease

Drought development likely

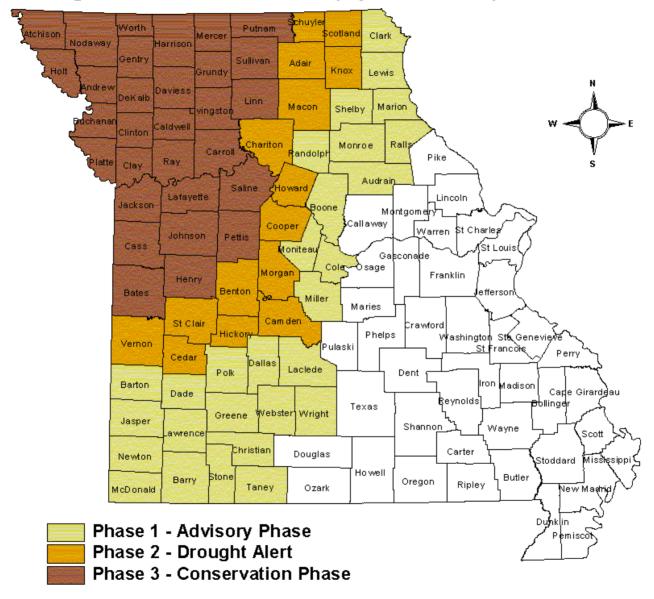
Drought development likely

Depicts general, large-scale trends based on subjectively derived probabilities guided by numerous indicators, including short and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more than a few days in advance, so use caution if using this outlook for applications -- such as crops -- that can be affected by such events. "Ongoing" drought areas are schematically approximated from the Drought Monitor (D1 to D4). For weekly drought updates, see the latest Drought Monitor map and text.

Recommended Drought Condition Status (May 16, 2003)



Drought Condition Status (April 1, 2003)



Drought Condition Status (March 4, 2003)

